



Administration  
15 FTE

Animal  
Conservation &  
Welfare  
84 FTE

Guest Services  
24 FTE

Education  
4 FTE

Park Operations  
31 FTE

Belle Isle Zoo  
2 FTE

Belle Isle Nature Zoo  
4 FTE

Belle Isle Aquarium  
7 FTE



# DETROIT ZOOLOGICAL INSTITUTE



## **AGENCY MISSION**

The purpose of the Detroit Zoological Institute is "Celebrating and Saving Wildlife."

## **MISSION STATEMENT**

- Demonstrating leadership in wildlife conservation and animal welfare.
- Providing a broad audience with outstanding and unique educational opportunities that lead to the appreciation and stewardship of nature.
- Inspiring our community with engaging, meaningful and memorable experiences.
- Providing innovative zoological facilities that contribute to the region's economic vitality.
- Demonstrating organizational excellence consistent with a commitment to outstanding service and progressive resource management.

## **CURRENT FACILITIES**

### **Detroit Zoo**

The Detroit Zoo, opened to the public in 1928, is the largest component of the Detroit Zoological Institute. It consists of 125-acres located approximately 12 miles northwest of downtown Detroit, just north of I-696 and west of Woodward, in Royal Oak.

Built in the 1920's and 30's, the Detroit Zoo is noted as the first zoo in the United States to use barless exhibits extensively, reflecting its design by Carl Hagenback, generally recognized as the most important historical influence on modern zoo design. The Zoo is a natural habitat for more than 2,900 animals and 700 varieties of trees, shrubbery, and flowering plants.

In the last twenty-five years, five major new exhibits have been built and opened to the public. The Arctic Ring of Life opened to much

fanfare as the largest polar habitat exhibit in the world and received the "Significant Achievement Award" in September 2003 from the American Zoo and Aquarium Association. In 2000, the National Amphibian Conservation Center opened to the public, and was recently recognized as the "Best New Exhibit" by the American Zoo and Aquarium Association. The Wildlife Interpretive Gallery opened in 1995. The Chimpanzee of Harambee opened in 1989 (in April 1996 Gorillas returned to the Zoo for the first time in fifteen years, and this complex was renamed the Great Apes of Harambee). Renovations to this exhibit were recently completed and include a number of improvements that provide better conditions for the animals, improved operation of the exhibit, and the enhancement of the public viewing experience. In 1977 the Free-Flight Aviary opened. Other significant exhibits include the Penguinarium (1968), Holden Museum of Living Reptiles (1960), Barnyard, Snow Monkeys, Prairie Dogs (renovated in 1999), Bear Dens, Wolverines (renovated in 2001), Kangaroos, Giraffes (renovated in 1994), Siberian tigers, African Lions, Hippopotamus, Elephants, Grevy's Zebras, Bactrian Camels, Scimitar-horned Oryx, Mandrill (1984), River Otters (1998) and a variety of other endangered species exhibits.

Among the Zoo's many features are the much photographed Rackham Memorial Fountain, the popular Miniature Railroad, presented in 1931 by the Detroit News and last renovated in 1984 and 1998, narrated tram tours, and an extensive wayfinding signage and interpretive graphic system designed to educate our visitors.

A new front entrance, provided through Michigan State Highway funding during the construction of I-696, was opened in 1986, and included a four-story parking garage, which increased total parking capacity to over 2,000 spaces.

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Support facilities include five (4) refreshment stands (and 7 seasonal service carts), five (5) gift shops (two of which are open throughout the year), seven (7) service buildings (include the animal hospital and quarantine areas) and two (2) railroad stations.

The new state-of-the-art Animal Health Complex opened in May 2004. The 18,000 square foot building replaces the 50-year-old Holden Hospital as the primary care center for the Institute's collection of wildlife. The facility is composed of a central treatment room surrounded by radiology, surgery, a clinical pathology laboratory for running tests, and a pharmacy. Other areas include an ICU/nursery for critical care, a laboratory for water quality technicians, and a necropsy facility.

## **Belle Isle Nature Zoo**

In FY 2004-2005, the former Belle Isle Nature Center has begun its dramatic renovation into the Belle Isle Nature Zoo. This unique blend of nature center and zoo, which is targeted for use by Detroit schools and Detroit families, will focus on native Michigan wildlife, including black bears, cougars, deer, wolves, small mammals and amphibian and reptiles. Programming will begin in the fall of 2004. Capital improvements are expected to be completed in FY 2007-08.

## **Belle Isle Zoo**

The Belle Isle Zoo is located on Belle Isle, Detroit's island park on the Detroit River and is situated on 13-acres in the center of the island's 982 acres, between Central and Tanglewood Streets. The Belle Isle Zoo is closed to the public and is currently used to manage the Fallow Deer herd on Belle Isle. This facility will be replaced by the Belle Isle Nature Zoo (the former Belle Isle Nature Center) and will focus on native Michigan wildlife. The Belle Isle Zoo will no longer have operations once the Fallow Deer are moved to the Belle Isle Nature Zoo.

## **Belle Isle Aquarium**

The Aquarium on Belle Isle is the nation's oldest continuously operating public aquarium, having opened in 1904. It was rehabilitated in 1955 and is open throughout the year. The Aquarium is well known among visitors for its freshwater stingray and electric eel exhibits. The Aquarium received significant structural repairs over the last two years.

There are over 55 exhibits with a total capacity of 32,000 gallons (roughly 5% of the average U.S. aquarium capacity), holding over 5,800 individuals representing 213 species.

## **FIVE YEAR HISTORY**

This funding over the past five years was devoted to the following:

- **Phase II Mall Lighting/Electrical** – (2000) Funded by \$300,000 in General Obligation Bonds.
- **National Amphibian Conservation Center** – (NACC) opened to the public in June of 2000. A new building for conservation and public exhibit of endangered amphibian species. Interpretive graphics highlighting the diversity of amphibian life are featured. No other center like this exists in the world. Funded with \$5,600,000 in private funds, \$300,000 in Obligation Bonds, and \$200,000 in State Funds.
- **Arctic Ring of Life** – (ARL) opened in October 2001. It is the most ambitious project in the Zoo's history and the largest of its kind in the world. Funded with \$3,400,000 in General Obligation Bonds, \$9,800,000 in private funds, and \$300,000 in State funding.
- **Belle Isle Aquarium** – Improvements completed in 2001. General Obligation Bonds of \$600,000 in 2000-01
- **Belle Isle Zoo Improvements** – Improvements completed in 2001.

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- General Obligation Bonds of \$600,000 in 2000-01
- **Restroom Upgrades** – All restrooms were renovated during 2002.  
General Obligation Bonds of \$500,000 in 2000-01  
Investment Earnings of \$300,000 in 2000-01  
General Obligation Bonds of \$500,000 in 2001-02  
General Obligation Bonds of \$600,000 in 2002-03
  - **Great Apes of Harambee (“Chimp Moat”)** – Construction completed in 2003.  
General Obligation Bonds of \$800,000 in 2001-02  
General Obligation Bonds of \$1,500,000 in 2002-03  
Private Funds of \$500,000 in 2002-03  
General Obligation Bonds of \$750,000 in 2003-04
  - **Gunitite Repair** – (1999-2000, 2003-04)  
This project involved repair of cracked exhibit gunitite to comply with USDA regulations. Funded by General Obligation Bonds of \$300,000 and investment earnings of \$500,000 in 1999-2000 and by General Obligation Bonds of \$500,000 in 2003-04.
  - **The Ford Center for Environmental Education** - Opening in 2004.  
Private Funding of \$9,950,000 in 2003-04.
  - **The new Veterinary Hospital Complex** – Opened in May 2004.  
Private Funding of \$4,850,000 in 2003-04.
  - **Belle Isle Nature Zoo** – Facility renovations and improvements as well as modifications to meet ADA Title II compliance (accessible parking spaces, make existing restrooms compliant, add family restroom, etc.).  
General Obligation Bonds of \$1,000,000 in 2004-05.
  - **Technology Infrastructure** – Additions and upgrades to various locations throughout the Zoo including modifications to meet ADA Title II compliance.  
General Obligation Bonds of \$250,000 in 2004-05.
  - **Paving / Roads / Utilities** – Repair Roadways, Walkways and Utilities as well as modifications (such as ADA handicap ramps) to meet ADA Title II compliance in the park.  
General Obligation Bonds of \$1,250,000 in 2004-05.
  - **Administration Building / Holden Hospital** – Renovations to office space will accommodate additional staff, provide larger meeting areas, and provide full compliance with ADA Title II standards.  
General Obligation Bonds of \$350,000 were budgeted for this project in FY 2004-05.
  - **Ford Center For Environmental Conservation**  
The Ford Center for Environmental Conservation will host a variety of education opportunities for the casual visitor as well as students of all grade levels. Furthermore, through the use of distance learning we will be able to go well beyond the DZI’s physical borders to a worldwide audience. .  
2003-04- \$9,950,000 - Private Funds  
2004-05- \$1,000,000 - Private Funds
  - **Holden Museum of Living Reptiles (HMLR) – Air Conditioning** – Installation of air conditioning to provide better conditions for guests and staff.  
General Obligation Bonds of \$200,000 were budgeted in FY 2004-05.
  - **SOCWA DEQ / Freshwater Backflow Prevention Mandate** – Installation of back-flow prevention valves at the main connection and back-flow prevention at all buildings on Zoo grounds as required by law (*Safe Drinking Water Act* – Act 399,

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P.A. 1976) under the Michigan Department of Environmental Quality. General Obligation Bonds of \$500,000 in 2004-05.

## **PROPOSED FIVE YEAR CAPITAL PLAN**

The plan for the Detroit Zoological Institute for the next five years is a mix of projects addressing renovation and infrastructure needs, as well as new development to improve conservation and education efforts, to provide new experiences for the visiting public, increase revenues, reduce expenses, and enhance safety.

The current five-year capital plan includes proposed public funding through the sale of General Obligation Bonds, private funding and state grants. Allocation for our new projects total \$57,500,000 from 2005-10 (not including \$100,000,000 in unprogrammed funds for the new riverfront aquarium).

- \$6,250,000 is allocated for Belle Isle Nature Zoo (BINZ) renovations and improvements including modifications to meet ADA Title II compliance (handicapped striping in the parking lot, a family restroom, signs, etc.).
- \$1,000,000 for Concessions facility improvements.
- \$2,000,000 is allocated for Landscape irrigation and capital equipment purchases.
- \$3,000,000 for Maintenance/Landscape buildings renovation.
- \$750,000 for Penguinarium renovation/mechanical system to update and maintain a state-of-the-art exhibit.
- \$1,250,000 is allocated to repair and improve the existing miniature Railway and Tramway system.
- \$1,500,000 for Roof Repairs to exhibits will provide more durable and lasting roofs for many of the exhibit buildings and the Administrative Complex.
- \$1,000,000 for additions and upgrades to the Technology infrastructure.
- \$8,250,000 allocated for the new Turtle Conservation Center, a unique facility dedicated to preserving many of the

seriously imperiled turtles and tortoises of the world.

- \$1,500,000 is allocated to replace the existing Commissary with a new state-of-the-art facility for animal food delivery, storage, and preparation.
- \$2,000,000 in Gunite (simulated rock) replacement and repair as required by USDA standards.
- \$11,000,000 is allocated for the implementation of Phase I of the Physical Masterplan.
- \$7,000,000 is allocated for the new National Invertebrate Conservation Center (NICC) a facility that will highlight the diversity of invertebrate life on earth, from marine forms such as jellies and sea stars, to land-dwelling tarantulas, ants, and dragonflies.
- \$1,250,000 will be used to repair Roadways, Walkways, and Utilities in the park, many of which have reached the end of their useful service life.
- \$4,000,000 is allocated for the renovation of the Primate House.
- \$500,000 is allocated for Restroom renovations.
- \$4,000,000 for an additional Parking Deck at the Detroit Zoo.
- \$1,000,000 scheduled maintenance cycle for life support/exhibits and gunite at the Arctic Ring of Life exhibit (ARL).
- \$250,000 scheduled maintenance cycle for Veterinary Complex.

## **CAPITAL RELATIONSHIPS: INTERDEPARTMENTAL AND KEY STAKEHOLDERS**

Capital projects are developed with the input of a variety of key stakeholders, including: international experts in wildlife conservation and education; members of the Detroit community (through regular town hall meetings with the community, website surveys, etc.); with Commission members and other community leaders, and with other City of Detroit agencies.

The Detroit Building Authority is responsible for project administration on various department

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projects. DPW/City Engineering is assisting with the paving of the main surface parking lot and the repair of pedestrian walkways in the park and related ADA compliance work. Municipal Parking is being consulted regarding ADA compliance issues. DWSD is assisting with the completion of work for the SOCWA DEQ freshwater backflow prevention mandate. ITSD is providing assistance with technology/infrastructure work as well as ADA compliance issues.

## GOALS FOR CAPITAL PROGRAM

1. **Wildlife Conservation and Animal Welfare** – To maintain exhibit facilities in a safe and humane manner consistent with standards of the U.S. Department of Agriculture and the American Zoo and Aquarium Association (AZA).
2. **Provide Educational and Recreational Opportunities for Detroit Students and Families** – To maintain the visitor amenities and exhibit facilities to maximize the educational and recreational value of a zoo visit and to reinforce our reputation as a safe, user-friendly tourist destination. To provide safe, clean facilities where Detroit students and families can experience the world of wildlife through innovative exhibits and programs and which verifies our reputation as a world-class tourist destination.
3. **Engage the Community in Our Innovative Programs and Facilities** – To provide new and exciting exhibits to encourage new and repeat attendance, which will promote financial health by increasing revenues and community support. To provide a zoological resource worthy of a world-class city, which will add to the cultural and economic climate of the region, and enhance the city as a place to live, work and visit.

4. **Enhance Safety, Security, and Emergency Preparedness** – To ensure that programs and facilities meet and exceed industry standards for building safety and crime prevention. And which will be resistant to the effects of wide-scale emergencies and hazards.
5. **Environmental Protection**– To effectively conserve water and energy, and to manage the solid-waste stream by using methods of recycling water and air and installing more efficient heating systems. The Detroit Zoo also uses “green building” in its structures, in our efforts to minimize use of natural resources and uses recyclable materials wherever possible. The DZI recycles paper products and plastic waste as part of its overall recycling program.

## RATIONALE FOR CAPITAL PROGRAM

The Zoological Park was constructed in the late 1920's and early 1930's. The Gunite structures, buildings and utilities must be continually evaluated and properly maintained and replaced. New animal display techniques require constant review. Those exhibits where constraints on the animal collection exceed what is considered to be humane have been closed or replaced. The United States Department of Agriculture (USDA), responsible for enforcing the provisions of the Animal Welfare Act, regularly inspects zoo exhibits and issues citations for improper housing and care. If corrections are not made within a designated time frame, the USDA has the power to close the Zoo.

The American Zoo and Aquarium Association, which establishes standards for zoo / aquarium management, evaluates member institutions every five years for accreditation. The adequacy of the physical facilities is an important component of this evaluation. Lack of accreditation would virtually eliminate our ability to acquire animals from other accredited zoological facilities and would restrict our ability to obtain federal permits for endangered species.

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To fulfill the mission of a zoo as a public recreational and education facility, new exhibits must be added to attract visitors and increase repeat visitations. Also, of paramount importance to the zoo's educational goals is the provision of an indoor facility suitable for conducting educational programs.

Finally, the fundamental needs of up to 18,000 daily visitors (including sufficient parking, ample and clean restrooms, plentiful refreshment opportunities, safe and well-illuminated public thoroughfares, first aid and security services, etc.) are critical to entice new visitors and retain customers for repeat visitation, in competition

with southeast Michigan's plethora of other cultural and recreational opportunities.

The Detroit Zoological Institute has been identified in the Settlement Agreement between the City and the Department of Justice regarding non-compliance with the ADA Act. The ADA citations will be accommodated using private and currently allocated capital funds to implement physical modifications to facilities (including parking lot, signage, restrooms, misc. facility changes, etc.) with completion expected by end of calendar year 2004.

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### **BELLE ISLE NATURE ZOO (BINZ)**

Capital improvements are expected to be completed in FY 2005-06 and will include modifications to meet ADA Title II compliance (handicapped striping in the parking lot, a family restroom, signs, etc.). This facility, targeted for use by Detroit schools and Detroit families, will focus on native Michigan wildlife and provide a view of the world that is not seen in an urban setting. In Fiscal Year 2004-05, general obligation bonds of \$1,000,000 were appropriated for this project.

|         |             |                          |
|---------|-------------|--------------------------|
| 2005-06 | \$2,000,000 | General Obligation Bonds |
|         | 250,000     | Private Funds            |
| 2006-07 | 3,000,000   | General Obligation Bonds |
|         | 250,000     | Private Funds            |
| 2007-08 | 500,000     | General Obligation Bonds |
|         | 250,000     | Private Funds            |

### **CONCESSIONS**

Renovation, remodeling, replacements and additions to current facilities. Modifications will meet ADA Title II compliance.

|         |            |                          |
|---------|------------|--------------------------|
| 2007-08 | \$ 500,000 | General Obligation Bonds |
| 2008-09 | 500,000    | General Obligation Bonds |

### **LANDSCAPING**

Various irrigation and planting projects at the Detroit Zoo, along with purchases of capital equipment.

|         |            |                          |
|---------|------------|--------------------------|
| 2007-08 | \$ 500,000 | General Obligation Bonds |
| 2008-09 | 500,000    | General Obligation Bonds |
| 2009-10 | 1,000,000  | General Obligation Bonds |

### **MAINTENANCE / LANDSCAPE BUILDINGS**

Repairs and renovations to the Landscape, Maintenance, and long-shed (storage) buildings including painting and window, garage door, and overhead door replacement, as well as, modifications to meet ADA Title II compliance. Repair of the steam tunnels to the Maintenance and Landscape buildings.

|         |             |                          |
|---------|-------------|--------------------------|
| 2007-08 | \$1,000,000 | General Obligation Bonds |
|         | 2,000,000   | Unprogrammed             |

### **PENGUINARIUM RENOVATION/MECHANICAL SYSTEM**

This project involves upgrading animal life support equipment in this facility. Replacement equipment includes exhibit air handling, air filtration, water filtration, water-cooling, air conditioning and heat systems. General obligation bonds of \$500,000 were appropriated for this project in FY 2003-04.

|         |            |                          |
|---------|------------|--------------------------|
| 2007-08 | \$ 750,000 | General Obligation Bonds |
|---------|------------|--------------------------|



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### **RAILROAD TRAINS / TRAMS**

This project is for repair and improvement of the existing miniature railway and tramway system. It will also include modifications to meet ADA Title II compliance.

|         |            |                          |
|---------|------------|--------------------------|
| 2007-08 | \$ 250,000 | General Obligation Bonds |
| 2008-09 | 250,000    | General Obligation Bonds |
| 2009-10 | 750,000    | General Obligation Bonds |

### **ROOF REPLACEMENT**

This maintenance project will replace flat rooftops that have been repaired, but not replaced. For FY 2003-04, general obligation bonds of \$200,000 has been appropriated for this project.

|         |            |                          |
|---------|------------|--------------------------|
| 2009-10 | \$ 500,000 | General Obligation Bonds |
|         | 1,000,000  | Unprogrammed             |

### **TECHNOLOGY INFRASTRUCTURE**

The technology infrastructure project involves adding additional phone cabinet for extensions in new hospital and education center. This includes upgrades to electrical wiring in various locations around the Zoo, including Administration server room, Africa Train Station, Africa Gift shop and other areas where network switches or video surveillance will be installed. Several Creston-controlled A/V media racks located in the new hospital, education building and Belle Isle Nature Zoo will help provide our visitors with valuable animal welfare and conservation information while allowing guest speakers more presentation options. This project will also include modifications to meet ADA Title II compliance. General obligation bonds of \$250,000 has been appropriated in the FY2004-05 budget.

|         |           |                          |
|---------|-----------|--------------------------|
| 2009-10 | \$250,000 | General Obligation Bonds |
|         | 750,000   | Unprogrammed             |

### **TURTLE CONSERVATION CENTER**

The Turtle Conservation Center is a unique facility dedicated to preserving many of the seriously imperiled turtles and tortoises of the world.

|         |            |               |
|---------|------------|---------------|
| 2005-06 | \$ 250,000 | Private Funds |
|         | 1,000,000  | State Funds   |
| 2006-07 | 3,000,000  | Private Funds |
|         | 2,000,000  | State Funds   |
| 2007-08 | 1,000,000  | Private Funds |
|         | 1,000,000  | State Funds   |

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### **COMMISSARY**

This project will replace the existing commissary with a new, state-of-the-art facility for animal food delivery, storage, and preparation.

|             |              |
|-------------|--------------|
| \$1,500,000 | Unprogrammed |
|-------------|--------------|

### **GUNITE**

Gunitite maintenance is an ongoing U.S. Department of Agriculture (USDA) requirement, which is used to repair cracks, broken masonry or moat exhibit surfaces as necessary. Most of the Institute's exhibits contain this substance. In the FY 2003-04, general obligation bonds of \$500,000 were budgeted for this project.

|             |              |
|-------------|--------------|
| \$1,000,000 | Unprogrammed |
|-------------|--------------|

### **IMPLEMENTATION OF PHYSICAL MASTERPLAN – PHASE I**

This would provide funds to begin implementation of the physical Masterplan, beginning with the demolition and replacement of deteriorating buildings such as the Bear Den and the Veldt building.

|         |             |               |
|---------|-------------|---------------|
| 2007-08 | \$2,000,000 | Private Funds |
|         | 1,000,000   | State Funds   |
| 2008-09 | 3,000,000   | Private Funds |
|         | 1,000,000   | State Funds   |
|         | 4,000,000   | Unprogrammed  |

### **NATIONAL INVERTEBRATE CONSERVATION CENTER**

The National Invertebrate Conservation Center (NICC) will highlight the diversity of invertebrate life on earth, from marine forms such as jellies and sea stars, to land-dwelling tarantulas, ants, and dragonflies.

|         |             |               |
|---------|-------------|---------------|
| 2008-09 | \$2,000,000 | Private Funds |
|         | 2,000,000   | State Funds   |
|         | 3,000,000   | Unprogrammed  |

### **PAVING/ROADS/UTILITIES**

Repaving of the main surface parking lot and the repair of pedestrian walkways in the park are ongoing projects. This project will include modifications to meet ADA Title II compliance by providing a total of 37 designated accessible parking spaces (including 4 van accessible spaces) as well as a sign at each space designating the space as accessible at the Detroit Zoo's Ten Mile Parking Lot and Parking Garage. General obligation bonds of \$250,000 and \$1,250,000 were budgeted for this project in FY2003-04 and FY2004-05, respectively.

|         |            |                          |
|---------|------------|--------------------------|
| 2008-09 | \$ 750,000 | General Obligation Bonds |
|         | 500,000    | Unprogrammed             |

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### **PRIMATE HOUSE**

This project includes the renovation of the public area and animal diet preparation area as well as the installation of air-handling systems.

\$4,000,000                      Unprogrammed

### **RESTROOM RENOVATIONS**

This project will renovate all existing restrooms. This will include modifications to meet ADA Title II compliance by providing signs with raised and brailled characters, pictorial symbol signs as well as ADA compliant fixtures in the restrooms.

\$ 500,000                      Unprogrammed

### **PARKING DECK**

With the addition of two new buildings, guests will spend more time on Zoo grounds and fewer parking spaces will turn over thereby decreasing multiple single-day usage. Currently with guest stays averaging 3-1/2 hours our parking lot can accommodate up to 4,000 cars. The National Invertebrate Conservation Center and the Turtle Conservation Center will increase attendance and guest stays necessitating the need for additional parking. This project will include the appropriate number of designated accessible parking spaces (including van accessible spaces) as well as a sign at each space designating the space as accessible as mandated by ADA Title II.

\$4,000,000                      Unprogrammed

### **ARCTIC RING OF LIFE (ARL)**

Scheduled maintenance cycle for life support/exhibits and gunite to meet USDA and AZA standards.

\$1,000,000                      Unprogrammed

### **VETERINARY HOSPITAL COMPLEX**

This facility opened in May 2004. This project includes funds for the five-year scheduled maintenance cycle in 2009-10. In FY2004-05, private funds of \$1,000,000 was allocated for this project.

\$ 250,000                      Private Funds

### **AQUARIUM, DOWNTOWN**

While not in the current capital spreadsheet, the Detroit Zoological Institute will design and build a new Riverfront Aquarium. This state-of-the-art \$100-million dollar facility will attract 1.5 million visitors annually.

\$100,000,000                      Unprogrammed

**City of Detroit**  
**Proposed Capital Agenda**  
**FY 2005-06 through 2009-10**

**Detroit Zoological Institute**

|  | <i>Project<br/>Status</i> | <i>Timeline</i> | <i>Impact<br/>on<br/>Budget</i> | <i>Impact<br/>on<br/>Staffing</i> | <i>Impact<br/>on<br/>Budget</i> | <i>Funding<br/>Source</i> | <i>Auth<br/>Unissued</i> | <i>Budget<br/>2004-05</i> | <i>2005-06</i> | <i>2006-07</i> | <i>2007-08</i> | <i>2008-09</i> | <i>2009-10</i> | <i>Un-<br/>Program</i> | <i>Rec.<br/>5-Year<br/>Plan Total</i> |
|--|---------------------------|-----------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------|--------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|---------------------------------------|
| Belle Isle Nature Zoo                            | N                         | P               | AF                              | AS                                | \$300                           | G.O.                      | \$5,500                  | \$1,000                   | \$2,000        | \$3,000        | \$500          |                |                |                        | \$5,500                               |
| Belle Isle Nature Zoo                            | M                         | O               | AF                              | AS                                |                                 | P.F.                      |                          |                           | \$250          | \$250          | \$250          |                |                |                        | \$750                                 |
| Concessions                                      | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      | \$1,000                  |                           |                |                | \$500          | \$500          |                |                        | \$1,000                               |
| Landscaping                                      | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                | \$500          | \$500          | \$1,000        |                        | \$2,000                               |
| Maintenance/Landscape Buildings/<br>Facilities   | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                | \$1,000        |                |                |                        | \$2,000                               |
| Penguinarium Renovation/Mechanical<br>System     | M                         | O               | AF                              | NSI                               | \$15                            | G.O.                      | \$750                    |                           |                |                | \$750          |                |                |                        | \$750                                 |
| Railroad Trains / Trams                          | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      | \$500                    |                           |                |                | \$250          | \$250          | \$750          |                        | \$1,250                               |
| Roof Replacement                                 | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      | \$635                    |                           |                |                |                |                | \$500          | \$1,000                | \$500                                 |
| Technology Infrastructure                        | N                         | O               | NOI                             | NSI                               | \$35                            | G.O.                      |                          | \$250                     |                |                |                |                | \$250          | \$750                  | \$250                                 |
| Turtle Conservation Center                       | N                         | P               | AF                              | NSI                               |                                 | O.S.                      |                          |                           | \$1,000        | \$2,000        | \$1,000        |                |                |                        | \$4,000                               |
| Turtle Conservation Center                       | N                         | P               | NOI                             | NSI                               |                                 | P.F.                      |                          |                           | \$250          | \$3,000        | \$1,000        |                |                |                        | \$4,250                               |
| Commissary                                       | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$1,500                | \$0                                   |
| Gunite / Exhibits                                | M                         | O               | AF                              | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$1,000                | \$0                                   |
| Implementation of Physical Masterplan<br>Phase I | N                         | P               | AF                              | AS                                |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$4,000                | \$0                                   |
| Implementation of Physical Masterplan<br>Phase I | N                         | P               | AF                              | AS                                |                                 | O.S.                      |                          |                           |                |                |                | \$1,000        | \$1,000        |                        | \$2,000                               |
| Implementation of Physical Masterplan<br>Phase I | N                         | P               | AF                              | AS                                |                                 | P.F.                      |                          |                           |                | \$2,000        | \$3,000        |                |                |                        | \$5,000                               |
| National Invertebrate Conservation<br>Center     | N                         | P               | AF                              | AS                                | \$400                           | G.O.                      |                          |                           |                |                |                |                |                | \$3,000                | \$0                                   |
| National Invertebrate Conservation<br>Center     | N                         | P               | AF                              | AS                                |                                 | O.S.                      |                          |                           |                |                |                | \$2,000        |                |                        | \$2,000                               |

*Project Status: M=project is maintaining current infrastructure; N=project will result in new development*

*Project Timeline: P=project is proposed; O=project is ongoing; U=project is one time and underway*

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## Detroit Zoological Institute

|  | <i>Project<br/>Status</i> | <i>Timeline</i> | <i>Impact<br/>on<br/>Budget</i> | <i>Impact<br/>on<br/>Staffing</i> | <i>Impact<br/>on<br/>Budget</i> | <i>Funding<br/>Source</i> | <i>Auth<br/>Unissued</i> | <i>Budget<br/>2004-05</i> | <i>2005-06</i> | <i>2006-07</i> | <i>2007-08</i> | <i>2008-09</i> | <i>2009-10</i> | <i>Un-<br/>Program</i> | <i>Rec.<br/>5-Year<br/>Plan Total</i> |
|--|---------------------------|-----------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------|--------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|---------------------------------------|
| National Invertebrate Conservation Center                  | N                         | P               | AF                              | AS                                |                                 | P.F.                      |                          |                           |                |                |                | \$2,000        |                |                        | \$2,000                               |
| Paving/Roads/Utilities                                     | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          | \$1,250                   |                |                |                | \$750          |                |                        | \$750                                 |
| Primate/Lion House Renovation                              | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$4,000                | \$0                                   |
| Restrooms  | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$500                  | \$0                                   |
| Parking Deck   | N                         | P               | AF                              | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$4,000                | \$0                                   |
| Artic Ring of Life (ARL)                                   | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          |                           |                |                |                |                |                | \$1,000                | \$0                                   |
| Veterinary Complex   | N                         | O               | AF                              | AS                                |                                 | P.F.                      |                          | \$1,000                   |                |                |                |                | \$250          |                        | \$250                                 |
| Aquarium, Downtown   | N                         | P               | AF                              | AS                                | \$4,000                         | G.O.                      |                          |                           |                |                |                |                |                | \$100,000              | \$0                                   |
| SOCWADEQ/Freshwater Backflow Prevention Maintenance        | M                         | U               | NOI                             | NSI                               |                                 | G.O.                      |                          | \$500                     |                |                |                |                |                |                        | \$0                                   |
| Holden Museum of Living Reptiles (HMLR) - Air Conditioning | M                         | U               | NOI                             | NSI                               |                                 | G.O.                      |                          | \$200                     |                |                |                |                |                |                        | \$0                                   |
| Administration Building / Holden Hospital                  | M                         | O               | NOI                             | NSI                               |                                 | G.O.                      |                          | \$250                     |                |                |                |                |                |                        | \$0                                   |
| <b>Total by Funding Source</b>                             |                           |                 |                                 |                                   |                                 |                           | <i>Auth<br/>Unissued</i> | <i>Budget<br/>2004-05</i> | <i>2005-06</i> | <i>2006-07</i> | <i>2007-08</i> | <i>2008-09</i> | <i>2009-10</i> | <i>Un-<br/>Program</i> | <i>5-Year<br/>Total</i>               |
| G.O.   |                           |                 |                                 |                                   |                                 |                           | \$8,385                  | \$3,450                   | \$2,000        | \$3,000        | \$3,500        | \$2,000        | \$2,500        | \$120,750              | \$13,000                              |
| P.F.   |                           |                 |                                 |                                   |                                 |                           |                          | \$1,000                   | \$500          | \$3,250        | \$3,250        | \$5,000        | \$250          | \$0                    | \$12,250                              |
| O.S.   |                           |                 |                                 |                                   |                                 |                           |                          | \$0                       | \$1,000        | \$2,000        | \$1,000        | \$3,000        | \$1,000        | \$0                    | \$8,000                               |
| <b>Total by Agency: Detroit Zoological Institute</b>       |                           |                 |                                 |                                   |                                 |                           |                          | <i>Budget<br/>2004-05</i> | <i>2005-06</i> | <i>2006-07</i> | <i>2007-08</i> | <i>2008-09</i> | <i>2009-10</i> | <i>Un-<br/>Program</i> | <i>Grand<br/>Total</i>                |
|  |                           |                 |                                 |                                   |                                 |                           |                          | \$4,450                   | \$3,500        | \$8,250        | \$7,750        | \$10,000       | \$3,750        | \$120,750              | \$158,450                             |

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2004

# Detroit Zoological Department Properties



City of Detroit - GIS

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